

**What is claimed is:**

- 1) An intelligent power system, comprising;
  - a. a power supply having a control circuit; and
  - b. a cable having a memory device;

5            wherein the memory device has stored therein predetermined power requirements.

- 2) The system of claim 1, further comprising a device specific connector for mating to a host device.
- 3) The system of claim 2, further comprising a universal connector.
- 4) The system of claim 3, further comprising a protection circuit.
- 10    5) The system of claim 4, wherein the predetermined power requirements are selected from the group consisting of a voltage limit and a current limit.
- 6) The system of claim 3, further comprising a power conversion circuit.
- 7) The system of claim 6, wherein the power conversion circuit is selected from the group consisting of fly back regulator, a step-down, or "buck", regulator, a step-up regulator, a  
15    buck-boost regulator, and a resonant regulator.
- 8) The device of claim 8, wherein the memory device is an EPROM.